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(71) Applicant (for all designated States except US): **TIP-
PETTS FOUNTAINS LIMITED** [GB/GB]; Barncroft,
Vicarage Lane, Dore, Sheffield S17 3GX (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TIPPETTS, John**
[GB/GB]; Barncroft, Vicarage Lane, Dore, Sheffield S17
3GX (GB).

(74) Agent: **HARRISON GODDARD FOOTE**; Fountain
Precinct, Leopold Street, Sheffield S1 2QD (GB).

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SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

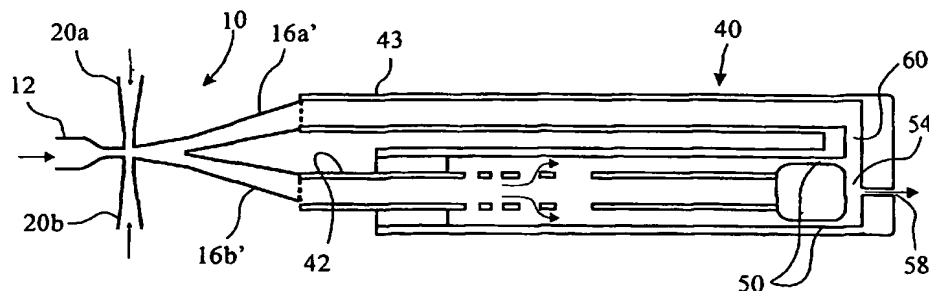
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: DISPLAY FOUNTAIN, SYSTEM, ARRAY AND WIND DETECTOR



(57) Abstract: A fountain (50) comprises a supply of water under pressure, a primary fluidic diverter (10) having an input (12) for said supply, and first and second outputs (16a, b) diverging from said input. Two control ports (20a, b) are provided with control flow to direct input flow to one or other of the two outputs that lead to the two inputs of a vortex amplifier (40). This comprises a vortex chamber (54), a radial port (50), a vortex inducing port (60) and an axial output port (58). One (16a) of the diverter outputs is connected to the vortex inducing port, the other (16b) to the radial port, so that supply to said axial output port is modulated by formation of a vortex in the chamber when flow is to the vortex inducing port. The axial port leads to a nozzle whereby a vortex spray or axial jet is produced, depending on which diverter output (16a, b) is active.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B05B1/08 F15C1/14 F15C1/16 B05B1/34 B05B17/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B05B F15C A01G G01P B05C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 222 856 A (BOSCH GMBH ROBERT) 18 October 1974 (1974-10-18) page 2, line 28 - page 3, line 31 page 6, line 20 - page 7, line 10 claims; figures	1-4,6,7, 9,27
Y		5,10,11, 19-24, 49-51
A		8
X	US 3 776 460 A (FICHTER B) 4 December 1973 (1973-12-04) column 1, line 46 - line 56 column 2, line 1 - line 39 claims; figures	1,6,7,9, 27

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Roldán, J

INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 3 595 479 A (FREEMAN PETER A) 27 July 1971 (1971-07-27) column 2, line 29 - line 64	1,2,6,7, 27 35-43
X	US 3 267 946 A (ADAMS ROBERT B ET AL) 23 August 1966 (1966-08-23) column 3, line 33 - column 4, line 15 figure 5	1,2,6,7, 27
X A	DE 202 10 103 U (HAASE FRANK) 24 October 2002 (2002-10-24) the whole document	28,31-34 29,30
X A	FR 2 392 596 A (LAGRANDIERE MARC DE) 29 December 1978 (1978-12-29) page 2, paragraphs 2,3 page 4, paragraph 4-6 figures	28,33,34 17,18
X	US 4 978 066 A (FULLER MARK W ET AL) 18 December 1990 (1990-12-18) columns 2-5 claim 10	28,29,34
X	GB 1 318 992 A (BOWLES FLUIDICS CORP) 31 May 1973 (1973-05-31) the whole document	28,30,34
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Y		21
Y	US 5 749 518 A (WANG YULIS) 12 May 1998 (1998-05-12) column 2, line 37 - line 65 figures	10,11, 49,50
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 384 142 A (BAHRTON PER) 13 October 1978 (1978-10-13) figure 1	5
Y	US 5 722 599 A (FRIES MICHAEL ALLEN) 3 March 1998 (1998-03-03) the whole document	10
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A	column 1, line 60 - column 2, line 13 figures	25,26
Y	US 2 701 738 A (CERASI VINCENT C) 8 February 1955 (1955-02-08) the whole document	49
A	US 3 760 828 A (KAWABATA M) 25 September 1973 (1973-09-25) the whole document	1
A	US 3 717 164 A (GRIFFIN W) 20 February 1973 (1973-02-20) column 3, line 60 - line 75; figure 2	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/05146

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-11, 17-51
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9,27

Fountain with fluidic diverter with two outputs and a vortex valve, wherein one output is connected to a tangential port of the vortex valve and the other is connected to a radial port. Whereby the fountain produces alternatively a vortex spray or axial jet.

2. claims: 10-11,49,50

Fountain wherein means to deflect the vortex spray (spray catcher or nozzle with diffuser) are located downstream the nozzle.

3. claims: 12-13

Fountain comprising two parallel vortex valves wherein each radial port is fed by a water supply and each tangential port is fed by one of the respective outputs of a fluidic diverter.

4. claims: 14-15

Fountain with two parallel fluidic diverters connected to one vortex valve.

5. claim: 16

Self oscillating nozzle.

6. claims: 17,18,28-34

Wind detection device.

7. claims: 19-26

Fountain with fluidic diverter having a control port wherein the control port is controlled manually, by a pilot diverter or by a logic circuit respectively.

8. claims: 35-43

Fountain display with various display elements.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

9. claims: 44-48,51

Fountain with loop and tap therebetween.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB 03/05146

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/05146

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